CYANOACRYLATE KIT TUBELESS

Last revision December 2014 / Adapted to REACH Regulation

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1. Identification of the substance and of the company/undertaking Identification:
R-300
Company/undertaking identification
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2. HAZARD IDENTIFICATION

2.1. SUBSTANCE/MIXTURE CLASSIFICATION
According to CLP

H315: Causes skin irritation; H319: Causes serious eye irritation; H335: May cause respiratory irritation.
EUH202: Cyanoacrylate. Danger. Bonds skin and eyes in seconds. Keep out of the reach of children.

2.2 LABEL ELEMENTS
Label elements according to CLP

H315: Causes skin irritation.
H319: Causes serious eye irritation
H335: May cause respiratory irritation.
EUH202: Cyanoacrylate. Danger. Bonds skin and eyes in seconds. Keep out of the reach of children.

Label words:
Warning
Hazard pictograms:
GHS07: Exclamation mark



Precautionary statements:

P261:	Avoid breathing vapours.
P271:	Use only outdoors or in a well-ventilated area.
P280:	Wear protective gloves.
P302+352:	IF ON SKIN: Wash with plenty of soap and water.
P305+351+338:	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+313:	If eye irritation persists: Get medical advice/attention.

2.3 OTHER DANGERS:
PBT: This product is not identified as a PBT substance.

3. COMPOSITION/INFORMATION ON INGREDIENTS

ETHYL-2-CYANOACRYLATE

EINECS	CAS	CHIP Classification	CLP Classification	%
230-391-5	7085-85-0	Xi: R36/37/38	Eye Irrit. 2: H319; STOT SE 3: H335; Skin Irrit. 2: H315	>80%

4. FIRST AID MEASURES

4.1. DESCRIPTION OF FIRST AID MEASURES
Skin contact: Do not pull bonded skin apart. Remove all contaminated clothes and footwear immediately unless stuck to skin. Wash immediately with plenty of soap and water. Any bonded skin should be gently peeled apart, preferably after soaking in warm, soapy water. In the case of large spills on the skin, superficial burns may occur – treat accordingly. If irritation persists, obtain medical attention.

Eye contact: Bathe the eye with running water for 15 minutes. If the eyelid is bonded closed, do not force to open. Cover with wet pad soaked in warm water. Get prompt medical attention, in case solid particles of cured cyanoacrylate trapped behind the eye cause any abrasive damage. Keep eye covered with wet pad until debonding is complete, usually 1-3 days. (Cyanoacrylate will bond to eye protein, causing a lachrymatory effect that aids debonding).

Ingestion: The product will polymerise immediately in the mouth, making it almost impossible to swallow, but beware of possible choking hazard. Ensure breathing passages are not obstructed. Saliva will separate the solidified product from the mouth over a period of hours. Consult a doctor.

Inhalation: Remove casualty from exposure ensuring one's own safety whilst doing so. If symptoms persist, consult a doctor.

4.2. MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED
Skin contact: Cyanoacrylates bond skin in seconds. In the case of large spills on the skin, superficial burns may occur - treat accordingly. There may be irritation and redness at the site of contact.
Eye contact: Cyanoacrylates bond eyelids in seconds. There may be irritation and redness. The eyes may water profusely.

Ingestion: There may be soreness and redness of the mouth and throat. The product will polymerise immediately in the mouth, making it almost impossible to swallow, but beware of possible choking hazard.

Inhalation: There may be irritation of the throat with a feeling of tightness in the chest. Exposure may cause coughing or wheezing.

Delayed / immediate effects: Immediate effects can be expected after short-term exposure.

4.3. INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED Immediate / special treatment: Eye bathing equipment should be available on the premises.

5. FIREFIGHTING MEASURES

5.1. EXTINGUISHING MEDIA
Extinguishing media: Alcohol resistant foam. Dry chemical powder. Carbon dioxide. Use water spray to cool containers.

5.2. SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE
Exposure hazards: In combustion emits toxic fumes of carbon dioxide / carbon monoxide. In combustion emits toxic fumes of nitrogen oxides. In combustion emits toxic fumes.

5.3. ADVICE FOR FIRE-FIGHTERS
Advice for fire-fighters: Wear self-contained breathing

6. ACCIDENTAL RELEASE MEASURES

6.1. PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES
Evacuate the area immediately. Refer to section 8 of SDS for personal protection details. Mark out the contaminated area with signs and prevent access to unauthorised personnel. Turn leaking containers leak-side up to prevent the escape of liquid.

6.2. ENVIRONMENTAL PRECAUTIONS
Do not discharge into drains or rivers. Control the spill by taking contention measures.

6.3. METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP
Absorb into dry earth or sand. (Do not use cloths). Transfer to a closable, labelled salvage container for disposal by an appropriate method. Or polymerise slowly with water (~10:1, adhesive: water) and then scrape up.

7. HANDLING AND STORAGE

7.1. PRECAUTIONS FOR SAFE HANDLING
Handling requirements: Avoid direct contact with the substance. Ensure there is sufficient ventilation of the area. Do not handle in a confined space. Avoid the formation or spread of mists in the air. Ambient humidity should be >35% to minimise discomfort.

7.2. CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES
Storage conditions: Store in cool, well-ventilated area. Keep away from direct sunlight. Keep container tightly closed. Keep away from sources of ignition. Refrigerated storage (2 - 8oC) is recommended for optimum shelf-life.
Suitable packaging: Must only be kept in original packaging.

7.3. SPECIFIC END USE(S)
Specific end use(s): Adhesive

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. CONTROL PARAMETERS Hazardous
ingredients:
Ethyl-2-cyanoacrylate
Occupational exposure limits: Respirable dust
State TWA 8 hours 15 min. STEL TWA 8 hours 15 min. STEL
UK - 1.5mg / m3 –

DNEL/PNEC VALUES
n/a

8.2. EXPOSURE CONTROLS
Engineering measures: Ensure there is sufficient ventilation of the area. Ensure all engineering measures mentioned in section 7 of SDS are in place.

Respiratory protection: If WEL is likely to be exceeded, respiratory protective equipment will be needed. Gas/vapour filter, type A: organic vapours (EN141).

Hand protection: Nitrile gloves. Viton gloves.

Eye protection: Safety glasses with side-shields. Ensure eye bath is to hand.

Skin protection: Protective clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES
State: Liquid
Colour: Black
Odour: pungent pH:
4 ~ 6
Evaporation rate: Negligible
Oxidising: Non-oxidising (by EC criteria) Solubility:
Water Cures.
Soluble: Soluble in alcohols, acetone, MEK, toluene, DMF, nitromethane.
Viscosity: Viscous
Viscosity test: rotational viscometer
Boiling point / range ° C: 54-56 ° C / 6 mmHg
Flash Point: 75 ° C
Part.coeff. n-octanol / water: est <1
Vapour pressure: <1 Pa (25 ℃)
Relative density: 0.9 ~ 1.1 (1 = Water)

9.2. OTHER INFORMATION
Additional information: No data available.

10. STABILITY AND REACTIVITY

10.1. REACTIVITY
Reactivity: Stable under recommended transport or storage conditions.

10.2. CHEMICAL STABILITY
Chemical stability: Stable under normal conditions. Polymerises rapidly with water.

10.3. POSSIBILITY OF HAZARDOUS REACTIONS
Hazardous reactions: Hazardous reactions will not occur under normal transport or storage conditions.

10.4. CONDITIONS TO AVOID
Conditions to avoid: Heat. Direct sunlight. Moist air. Humidity.

10.5. INCOMPATIBLE MATERIALS
Materials to avoid: Water. Alkalis. Amines. Alcohols. Strong oxidising agents.

10.6. HAZARDOUS DECOMPOSITION PRODUCTS
Haz. decomp. products: In combustion emits toxic fumes. In combustion emits toxic fumes of carbon dioxide / carbon monoxide. In combustion emits toxic fumes of nitrogen oxides.

11. TOXICOLOGICAL INFORMATION

Hazardous Ingredients:
Ethyl-2-cianoacrilate

ORL	RAT	LD50	> 5	ml/kg

Relevant effects for mixture:

Effect	Route	Base
Irritation	OPT INH DRM	Dangerous: calculated

Symptoms / routes of exposure
Skin contact: cyanoacrylate cures in seconds. For large spills on skin, superficial burns may occur - treat accordingly. Irritation and redness at the site of contact may occur.
Eye contact: Cyanoacrylates stick the eyelids in seconds. Irritation and redness may occur. The eyes can weep profusely.
Ingestion: pain and redness in the mouth throat may occur. The product will polymerize immediately in the mouth, it is almost impossible to swallow, possible danger of suffocation.
Inhalation: irritation of the throat with a feeling of tightness in the chest. Exposure may cause coughing. Delayed / immediate effects: Immediate effects may result from short-term exposure.

12. ECOLOGICAL INFORMATION

12.1. TOXICITY
Ecotoxicity values: No data available.

12.2. PERSISTENCE AND DEGRADABILITY
Persistence and degradability: No data available.

12.3. BIOACCUMULATIVE POTENTIAL
Bioaccumulative potential: No bioaccumulation potential.

12.4. MOBILITY IN SOIL
Mobility: Considered to be very low due to rapid polymerisation with water.

12.5. RESULTS OF PBT AND VPVB ASSESSMENT
PBT identification: This product is not identified as a PBT substance.

12.6. OTHER ADVERSE EFFECTS
Other adverse effects: Negligible ecotoxicity.

13. DISPOSAL CONSIDERATIONS

13.1. WASTE TREATMENT METHODS
Disposal operations: Transfer to a suitable container and arrange for collection by specialised disposal company. Or polymerise slowly with water (10:1, adhesive: water). Hardened product can be disposed of in land-fill sites by licensed contractors. Waste code number: 08 04 09

Disposal of packaging: Dispose of in a regulated landfill site or other method for hazardous or toxic wastes.

NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

14. TRANSPORT INFORMATION

14.1. UN NUMBER:
UN3334

14.2. UN PROPER SHIPPING NAME
Shipping name: AVIATION REGULATED LIQUID, N.O.S. (ETHYL-2-CYANOACRYLATE)

14.3. TRANSPORT HAZARD CLASS(ES)
Transport class: 9

14.4. PACKING GROUP
Packing group: III

14.5. ENVIRONMENTAL HAZARDS
Environmentally hazardous: No
Marine pollutant: No

14.6. PRECAUTIONS FOR USER
Special precautions: IATA - primary packages <500 ml are not governed by this mode of transport and may be shipped unrestricted.

15. REGULATORY INFORMATION

CHEMICAL SAFETY ASSESSMENT
Chemical safety assessment: A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

16. Other information

This safety data sheet is prepared in accordance with Commission Regulation (EU) 453/2010.

Phrases used in s.2 and 3:
EUH202: Cyanoacrylate. Danger. Bonds skin and eyes in seconds. Keep out of the reach of children.
H315: Causes skin irritation.
H319: Causes serious eye irritation.
H335: May cause respiratory irritation.
R36/37/38: Irritating to eyes, respiratory system and skin.

According to Regulation (EC) No. 1907/2006 and Regulation (EC) No 453/2010

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